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[John Plevyak](#), [Vijay Karamcheti](#), [Xingbin Zhang](#), [Andrew A. Chien](#)

December 1995 **Supercomputing '95: Proceedings of the 1995 ACM/IEEE conference on Supercomputing (CDROM)**

**Publisher:** ACM

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While fine-grained concurrent languages can naturally capture concurrency in many irregular and dynamic problems, their flexibility has generally resulted in poor execution efficiency. In such languages the computation consists of many small threads which ...

### 2 [MPICH-GO: quality-of-service for message passing programs](#)

[Alain J. Roy](#), [Ian Foster](#), [William Gropp](#), [Brian Toonen](#), [Nicholas Karonis](#), [Volker Sander](#)

November 2000 **Supercomputing '00: Proceedings of the 2000 ACM/IEEE conference on Supercomputing (CDROM)**

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**Keywords:** MPI, Quality of Service, Differentiated Services, TCP

### 3 [Test of future system-on-chips](#)

[Yervant Zorian](#), [Sujit Dey](#), [Michael J. Rodgers](#)

November 2000 **ICCAD '00: Proceedings of the 2000 IEEE/ ACM international conference on Computer-aided design**

**Publisher:** IEEE Press

Full text available:  [Pdf](#) (140.88 KB)

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Spurred by technology leading to the availability of millions of gates per chip, system-level integration is evolving as a new paradigm, allowing entire systems to be built on a single chip. Being able to rapidly develop, manufacture, test, debug and ...


### 4 [A transport layer approach for achieving aggregate bandwidths on multi-homed mobile hosts](#)



[Hung-Yun Hsieh](#), [Raghupathy Sivakumar](#)

September 2002 **MobiCom '02: Proceedings of the 8th annual international conference on Mobile computing and networking**

**Publisher:** ACM 

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Due to the availability of a wide variety of wireless access technologies, a mobile host can potentially have subscriptions and access to more than one wireless network at a given time. In this paper, we consider such a multi-homed mobile host, and address ...

### 5 [Testing Intrusion detection systems: a critique of the 1998 and 1999 DARPA intrusion detection system evaluations as performed by Lincoln Laboratory](#)



November 2000 **Transactions on Information and System Security (TISSEC) , Volume 3 Issue 4**

**Publisher:** ACM 

Full text available:  [Pdf](#) (156.16 KB)

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In 1998 and again in 1999, the Lincoln Laboratory of MIT conducted a comparative evaluation of intrusion detection systems (IDSs) developed under DARPA funding. While this evaluation represents a significant and monumental undertaking, there are a number ...


**Keywords:** computer security, intrusion detection, receiver operating curves (ROC), software evaluation

6 [Fast detection of communication patterns in distributed executions](#)

[Thomas Kunz, Michiel F. H. Seuren](#)

November **CASCON '97: Proceedings of the 1997 conference of the Centre for 1997 Advanced Studies on Collaborative research**

**Publisher:** IBM Press

Full text available:  [Pdf](#) (4.21 MB)

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**Bibliometrics:** Downloads (6 Weeks): 41, Downloads (12 Months): 395, Citation Count: 0


Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event ...

7 [An empirical performance evaluation of scalable scientific applications](#)

[Jeffrey S. Vetter, Andy Yoo](#)

November **Supercomputing '02: Proceedings of the 2002 ACM/IEEE conference 2002 on Supercomputing**

**Publisher:** IEEE Computer Society Press

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Additional Information: [full citation](#), [references](#), [cited by](#), [index terms](#)


**Bibliometrics:** Downloads (6 Weeks): 6, Downloads (12 Months): 30, Citation Count: 12

8 [The intrinsic problems of structural heterogeneity and an approach to their solution](#)

[Theo Härder, Günter Sauter, Joachim Thomas](#)

April **The VLDB Journal — The International Journal on Very Large Data 1999 Bases**, Volume 8 Issue 1

**Publisher:** Springer-Verlag New York, Inc.

Full text available:  [Pdf](#) (132.99 KB)

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**Bibliometrics:** Downloads (6 Weeks): 4, Downloads (12 Months): 45, Citation Count: 4

This paper focuses on the problems that arise when integrating data from heterogeneous sources in a single, unified database view. At first, we give a detailed analysis of the kinds of structural heterogeneity that occur when unified views are derived ...


**Keywords:** Heterogeneity, Legacy systems, Mapping language, Schema integration, Schema mapping, Updatable views

9 [Multiple open services: a new approach to service provision in open hypermedia systems](#)

Uffe Kock Wil, David L. Hicks, Peter J. Nürnberg

September **HYPERTEXT '01: Proceedings of the 12th ACM conference on 2001 Hypertext and Hypermedia**

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Over the past decade, hypermedia systems have become increasingly open, distributed, and modular. As a direct result of this, open hypermedia systems have been increasingly successful in providing middleware services such as linking to a large set of ...

**Keywords:** Construct, component technology, component-based open hypermedia systems, hypermedia, middleware services, open service provision

10 [WMS and GML based interoperable web mapping system](#)

 Shashi Shekhar, Ranga Raiu Vatsavai, Namita Sahay, Thomas E. Burk, Stephen Lime November **GIS '01: Proceedings of the 9th ACM international symposium on 2001 Advances in geographic information systems**

**Publisher:** ACM  [Request Permissions](#)


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Recently the World Wide Web has become a popular vehicle for information distribution and web based geographic information system (GIS) are rapidly evolving and adapting to these new environments. The main hindrance for building true interoperable ...


**Keywords:** DOM, DTD, GIS, GML, SAX, WMS, XML Schema, XSLT

11 [Locating and accessing data repositories with WebSemantics](#)

 George A. Mihaila, Louisa Paschid, Anthony Tomasic

August **The VLDB Journal — The International Journal on Very Large Data 2002 Bases**, Volume 11 Issue 1

**Publisher:** Springer-Verlag New York, Inc.

Full text available:  Pdf (130.61 KB) **Additional Information:** [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

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Many collections of scientific data in particular disciplines are available today on the World Wide Web. Most of these data sources are compliant with some standard for interoperable access. In addition, sources may support a common semantics, i.e., ...


**Keywords:** Data discovery, Data integration, Mediators, Query languages, World Wide Web, XML

12 Challenges and opportunities in broadband and wireless communication designs

[Jan M. Rabaey](#), [Miodrag Potkonjak](#), [Farinaz Koushanfar](#), [Suet Fei Li](#), [Tim Tuan](#)

November 2000 **ICCAD '00: Proceedings of the 2000 IEEE/ACM international conference on Computer-aided design**

**Publisher:** IEEE Press

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Communication designs form the fastest growing segment of the semiconductor market. Both network processors and wireless chipsets have been attracting a great deal of research attention, financial resources and design efforts. However, further progress ...

13 Standards for system-level design: practical reality or solution in search of a question?



[Christopher K. Lennard](#), [Patrick Schaumont](#), [Gjalt de Jong](#), [Anssi Haverinen](#), [Pete Hardee](#)

January 2000 **DATE '00: Proceedings of the conference on Design, automation and test in Europe**

**Publisher:** ACM

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**Bibliometrics:** Downloads (6 Weeks): 0, Downloads (12 Months): 6, Citation Count: 15

14 Paranoid Penguin: Designing and Using DMZ Networks to Protect Internet Servers

[Mick Bauer](#)

March 2001 **Linux Journal**, Volume 2001 Issue 83es

**Publisher:** Specialized Systems Consultants, Inc.

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15 MPI and Java-MPI: contrasts and comparisons of low-level communication performance



[Vladimir Getoy](#), [Paul Gray](#), [Vaidy Sunderam](#)

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**Publisher:** ACM

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**Bibliometrics:** Downloads (6 Weeks): 4, Downloads (12 Months): 39, Citation Count: 6

16 [Reconsidering custom memory allocation](#)



[Emery D. Berger](#), [Benjamin G. Zorn](#), [Kathryn S. McKinley](#)

November 2002 **OOPSLA '02: Proceedings of the 17th ACM SIGPLAN conference on Object-oriented programming, systems, languages, and applications**

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Programmers hoping to achieve performance improvements often use custom memory allocators. This in-depth study examines eight applications that use custom allocators. Surprisingly, for six of these applications, a state-of-the-art general-purpose allocator ...

Also published in:

November 2002 **SIGPLAN Notices** Volume 37 Issue 11

17 [A multi-thread safe foundation for scene graphs and its extension to clusters](#)

[G. Voß](#), [J. Behr](#), [D. Reiners](#), [M. Roth](#)

September 2002 **EGPGV '02: Proceedings of the Fourth Eurographics Workshop on Parallel Graphics and Visualization**

**Publisher:** Eurographics Association

Full text available: [PDF](#) (119.74 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 12, Downloads (12 Months): 87, Citation Count: 9

One of the main shortcomings of current scene graphs is their inability to support multi-thread safe data structures. This work describes the general framework used by the OpenSG scene graph system to enable multiple concurrent threads to independently ...

18 [A network-failure-tolerant message-passing system for terascale clusters](#)



[Richard L. Graham](#), [Sung-Eun Choi](#), [David J. Daniel](#), [Nehal N. Desai](#), [Ronald G.](#)

[Minnich](#), [Craig E. Rasmussen](#), [L. Dean Fisinger](#), [Mitchel W. Sukalski](#)

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**Bibliometrics:** Downloads (6 Weeks): 1, Downloads (12 Months): 19, Citation Count: 9

The Los Alamos Message Passing Interface (LA-MPI) is an end-to-end network-failure-tolerant message-passing system designed for terascale clusters. LA-MPI is a standard-compliant implementation of MPI designed to tolerate network-related failures including ...


**Keywords:** MPI, fault tolerance, message passing

19 [The design and performance of a pluggable protocols framework for real-time distributed object computing middleware](#)

Carlos O'Ryan, Fred Kuhns, Douglas C. Schmidt, Ossama Othman, Jeff Parsons

April **Middleware '00: IFIP/ACM International Conference on Distributed systems platforms**

**Publisher:** Springer-Verlag New York, Inc.

Full text available:  Pdf (231.64 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#)

**Bibliometrics:** Downloads (6 Weeks): 3, Downloads (12 Months): 55, Citation Count: 14


*To be an effective platform for performance-sensitive real-time and embedded applications, off-the-shelf CORBA middleware must preserve the communication-layer quality of service (QoS) properties of applications end-to-end. However, the standard CORBA ...*

20 [Effective timestamping in databases](#)

Kristian Torp, Christian S. Jensen, Richard Thomas Snodgrass

February **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 8 Issue 3-4

**Publisher:** Springer-Verlag New York, Inc.

Full text available:  Pdf (198.04 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [cited by](#), [index terms](#)

**Bibliometrics:** Downloads (6 Weeks): 10, Downloads (12 Months): 86, Citation Count: 9





Many existing database applications place various timestamps on their data, rendering temporal values such as dates and times prevalent in database tables. During the past two decades, several dozen temporal data models have appeared, all with timestamps ...

**Keywords:** Timestamping, Transactions

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